

1545nm Bandpass Filter/Isolator Hybrid

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks



SPECIFICATIONS

Parameters		Unit	Single Stage	Dual Stage		
Center Wavelength		nm	1545			
Min. Pass Band Wid	th @ 0.5dB	nm	3.0, 4.0, 10.0, 12.0			
Stop Band @25dB -	3nm Bandwidth	nm	1510~1542 & 1548~1600			
	4nm Bandwidth	nm	1510~1540 & 1550~1600			
	10nm Bandwidth	nm	1510~1537 & 1553~1600			
	12nm Bandwidth	nm	1510~1532 & 1558~1600			
Insertion Loss@23°	С	dB	≤1.3	≤1.5		
Signal Isolation (23°C)		dB	≥28	≥40		
	D Type	-	2-port			
Configuration	Y Type	-	3-port, (Blocked Wavelength Guide Out)			
	X Type	-	4-port, (Both Block Wavelength Guide Out)			
Fiber Type at 3 rd or 4 th Port (Y/X Type)		-	Same Fiber of other ports or 50/125um MM Fiber			
ASE Direction	Forward Type	-	Bandpass Filter is before isolator			
	Backward Type	-	Bandpass Filter is after isolator			
	Twin Type	-	Bandpass Filter is at both sides of isolator			
Optical Return Loss		dB	≥45			
PDL		dB	≤0.2			
Fiber Type			SMF-28 Fiber or 10/130um DC Fiber (O)			
		-	12/130um DC Fiber (T) or 20/130um DC Fiber (Q)			
			25/250um DC Fiber (R) or 25/300um DC Fiber (G)			
Max. Optical Power (CW)		mW	300			
Operating Temperature		°C	0~50			
Storage Temperature		°C	-40~85			
Package	Stainless Steel Tube (SST)	mm	(Ø)5.5x35			
Dimension	Metal Box	mm	(L)120x(W)12x(H)10			

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

- 2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
- 3. Suggest to use Y or X type if blocked optical power is >1W.
- 4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

ORDERING INFORMATION (PN)

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FHBI-1545-C	NN	C	- (C)	(C)	- (C)	(C)	С	NN	-CC/CCC
Stage	Bandwidth	ASE Type	3rd Port Fiber	4th Port Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Sta	ge <mark>30=</mark> 3nm	F= Forward	Y=Same Fiber	Y=Same Fiber	M=Metal Box	0=10/130 DC Fiber	B= Bare fiber	<mark>05=</mark> 0.5m	N=Without Connector
D= Dual Stag	e 40=4nm	B=Backward	5= 50/125um Fiber	5=50/125um Fiber	<i>Blank</i> for SST	T=12/130 DC Fiber	L= Loose Tube	<mark>10</mark> =1.0m	FC/APC=FC/APC Connector
	100-10nm	T=Twin	<i>Blank</i> for D Type	<i>Blank</i> for D&Y Type		G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	120=12nm					<i>Blank</i> for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

